

Appl. No. 10/648,523
Amdt. dated January 10, 2006
Reply to Final Office Action of August 5, 2005 and
Reply to Advisory Action of November 2, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1. (Currently Amended) A light guide plate comprising:
a light incident surface for receiving light;
first and second light emission surfaces for emitting light; and
a light reflection pattern formed on the first light emission surface, for reflecting light toward the second light emission surface, the light reflection pattern including a plurality of dots, wherein the dots each have light reflecting surfaces elongated in a selected direction, wherein adjacent ones of the light reflecting surfaces meet each other at elongated edges of the adjacent light reflecting surfaces to form an angle between the adjacent reflecting surfaces.
~~each of the dots having a geometrically regular pattern formed on a corresponding dot.~~
2. (Canceled)
3. (Canceled)
4. (Currently Amended) The light guide plate of claim 32, wherein the light reflection pattern has different densities of the dots at different areas on the first light emission surface such that the closer is an area of the light reflection pattern to the light incident surface, the lower is a density of the dots at the area.
5. (Original) The light guide plate of claim 4, wherein the dots have different sizes such that the more distant is a dot from the light incident surface, the larger is the dot.

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6. (Original) The light guide plate of claim 4, wherein the dots have a substantially identical size, and a number of the dots at a unit area closer to the light incident surface is smaller than a number of the dots at a unit area farther from the light incident surface.

7. (Canceled)

8. (Canceled)

9. (Currently Amended) The light guide plate of claim 71, wherein the angle between the adjacent reflecting surfaces is in a range from about 80° to about 120°.

10. (Currently Amended) The light guide plate of claim 71, wherein the angle between the adjacent reflecting surfaces is in a range from about 82° to about 84°.

11. (Currently Amended) The light guide plate of claim 71, wherein the light reflecting surfaces are aligned in a direction parallel with the light incident surface.

12. (Currently Amended) The light guide plate of claim 71, wherein the dots of the light reflecting pattern include first dots having the light reflecting surfaces aligned in a first direction and second dots having the light reflecting surfaces aligned in a second direction.

13. (Original) The light guide plate of claim 12, wherein the first direction is parallel with the light incident surface and the first and second directions are perpendicular to each other.

14. (Original) The light guide plate of claim 12, wherein the first direction is parallel with the light incident surface and the second direction is one of random directions independent of the first direction.

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15. (Original) The light guide plate of claim 12, wherein the first dots are arranged in a matrix form, and the second dots are each interposed between adjacent ones of the first dots.

16. (Currently Amended) The light guide plate of claim 71, wherein the light reflecting surfaces each have at least one bent portion.

17. (Currently Amended) The light guide plate of claim 71, wherein the light reflecting surfaces are formed on the surface of the dots in a concave shape.

18. (Currently Amended) The light guide plate of claim 71, wherein the light reflecting surfaces are formed on the surface of the dots in a convex shape.

19. (Currently Amended) The light guide plate of claim 31, wherein the dots of the light reflection pattern are formed integrally on the first light emission surface.

20. (Currently Amended) The light guide plate of claim 31, wherein the dots of the light reflection pattern are formed on a separate sheet attached on the first light emission surface.

21. (Original) The light guide plate of claim 1, wherein the light reflection pattern is made of material having a refraction index same as that of material of a body of the light guide plate.

22-57 (Withdrawn)

58. (Currently Amended) A light guide plate comprising:
a light incident surface for receiving light;
first and second light emission surfaces for emitting light at a first light emission angle with respect to the first and second light emission surfaces; and

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a light reflection pattern formed on the first light emission surface, for reflecting light toward the second light emission surface, the light reflection pattern including a plurality of dots, each of the dots having a prism pattern formed on a corresponding dot, the prism pattern elongated in a specific direction.

59. (Previously Presented) The light guide plate of claim 58, wherein the light reflection pattern has different densities of the dots at different areas on the first light emission surface such that a density of the dots increases as a distance from the light incident surface increases.

60. (Previously Presented) The light guide plate of claim 59, wherein the dots have different sizes such that a size of the dots increases as a distance from the light incident surface increases.

61. (Previously Presented) The light guide plate of claim 59, wherein the dots have a substantially identical size, and a number of the dots at a unit area closer to the light incident surface is smaller than a number of the dots at a unit area farther from the light incident surface.

62. (Previously Presented) The light guide plate of claim 58, wherein the dots of the light reflection pattern are formed integrally on the first light emission surface.

63. (New) A light guide plate comprising:
a light incident surface for receiving light; and
first and second light emission surfaces for emitting light;
wherein the first emission surface includes a plurality of protrusions having a
geometrically regular pattern.

64. (New) The light guide plate of claim 63, wherein the geometrically regular pattern is
a plurality of microgrooves.

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65. (New) The light guide plate of claim 64, wherein the microgrooves is linked along a boundary of the protrusions.

66. (New) The light guide plate of claim 64, wherein depth of each of the microgrooves is different.

67. (New) The light guide plate of claim 63, wherein density of the geometrically regular pattern in the each protrusion is different according to the distance from a light source.

68. (New) The light guide plate of claim of 63, wherein the closer the protrusions are to the light incident surface, the lower a density of the protrusions at the area.

69. (New) The light guide plate of claim 63, wherein the protrusions have different sizes such that the more distant a protrusion is from the light incident surface, the larger the protrusion is.

70. (New) The light guide plate of claim 63, wherein the protrusions have a substantially identical size, and a number of the protrusions at a unit area closer to the light incident surface is smaller than a number of the protrusions at a unit area farther from the light incident surface.

71. (New) The light guide plate of claim 63, the geometrically regular pattern is a plurality of fine structures, each of the fine structures having a different height.

72. (New) The light guide plate of claim 63, wherein the geometrically regular pattern is a plurality of fine structures, each of the fine structures being linked together.

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